

What is claimed is:

1. An electron gun comprised of a cathode that has an electron emission surface and a first grid that has a beam hole, wherein

said electron emission surface and said beam hole being arranged opposite to each other and

the area opposite said beam hole within said electron emission surface being in closest proximity to said first grid.

2. An electron gun as set forth in claim 1, wherein said electron emission surface forming a convex surface on said first grid.

3. An electron gun as set forth in claim 2, wherein said convex surface being a surface formed by a press process.

4. An electron gun as set forth in claim 2, wherein said convex surface being a surface being a curved surface.

5. An electron gun as set forth in claim 2, wherein said convex surface being a curved surface with a different curvature depending on the direction.

6. An electron gun as set forth in claim 2, wherein said convex surface being a paraboloid.

7. An electron gun as set forth in claim 2, wherein said convex surface being a flat surface.

8. A cathode ray tube equipped with an electron gun, wherein

said electron gun having a cathode that has an

electron emission surface and a first grid that has a beam hole and said electron emission surface and said beam hole being arranged opposite to each other and

the area opposite said beam hole within said electron emission surface being in closest proximity to said first grid.

9. A cathode ray tube as set forth in claim 8, wherein

said electron emission surface having a convex surface on said first grid.

10. A cathode ray tube as set forth in claim 9, wherein

said convex surface being a surface formed by a press process.

11. A cathode ray tube as set forth in claim 9, wherein

said convex surface being a curved surface.

12. A cathode ray tube as set forth in claim 9, wherein

said convex surface being a curved surface with a different curvature depending on the direction.

13. A cathode ray tube as set forth in claim 9, wherein

said convex surface being a paraboloid.

14. A cathode ray tube as set forth in claim 9, wherein

said convex surface being a flat surface.

15. An image display device equipped with a cathode

ray tube, wherein

said cathode ray tube being equipped with an electron gun,

said electron gun being comprised of a cathode that has an electron emission surface and a first grid that has a beam hole and said electron emission surface and said beam hole being arranged opposite to each other and

the area opposite said beam hole within said electron emission surface being in closest proximity to said first grid.

16. A display device as set forth in claim 15, wherein

said electron emission surface having a convex surface on said first grid.

17. A display device as set forth in claim 16, wherein

said convex surface being a surface formed by a press process.

18. A display device as set forth in claim 16, wherein

said convex surface being a curved surface.

19. A display device as set forth in claim 16, wherein

said convex surface being a curved surface with a different curvature depending on the direction.

20. A display device as set forth in claim 16, wherein

said convex surface being a paraboloid.

21. A display device as set forth in claim 16,  
wherein  
said convex surface being flat surface.